HIGH POWER AMPLIFIER

R&K-A1.7BW0.2-6878R

- Envelope Synchronous Amplitude Modulation, Class D RF Power Amplifier.
- Frequency Range:1.7MHz～1.9MHz
- Output Power :60kW(pep)
- Building Block Construction

APPLICATION

- Accelerator Application

SPECIFICATIONS @＋25℃

Frequency Range	: 1.7MHz～1.9MHz
Output Power	: 60kW (pep)
Operation Mode	: Class D
Impedance	: 50Ω
Maximum Input Level	: 1Vp-p
Harmonics	: －25.0dBc (max.) @Po=60kW
Spurious	: －60.0dBc (max.) @Po=60kW
Input VSWR	: 1.5 (max.)
Output VSWR	: 2.0 (max.)
Blanking Pulse Input	: TTL Lo＝ON, TTL Hi＝OFF (TTL width≦25ms, duty≦50%)
RF Blanking ON/OFF Ratio	: 100dB (min.)
Single Amplifier AM modulation Level Linearity	: ±25% (max.)
Single Amplifier AM modulation Phase Linearity	: ±25% (max.)
AC Supply Input	: AC200V±10%／3φ, 50／60Hz
Consumption Power	: Ave. 52kVA (typ.), Peak 107kVA (typ.)
Operating Temperature	: 0℃ to ＋35℃
Storage Temperature	: －15℃ to ＋55℃
Connectors	: RF - IN N - FEMALE RF - OUT 3-1/8" EIA Flange
Size	: (W)824mm×(D)1160mm×(H)1680mm (W)684mm×(D) 853mm×(H) 768mm (Excluding Projection)
Weight	: 1200.0kg (max.)
Cooling	: Forced Air Cooling and Water Cooling
Protection Circuits	: Over Temperature Protection Power Supply Voltage Protection Output Over Power Protection Output Over Reflection Power Protection Blanking Input Error protection Over Dorain Voltage/Current Protection Gate Voltage Protection Input Level Protection Water Flow Protection Water Temperature Protection
Metering	: R&K Multi Monitoring System

HOW TO ORDER

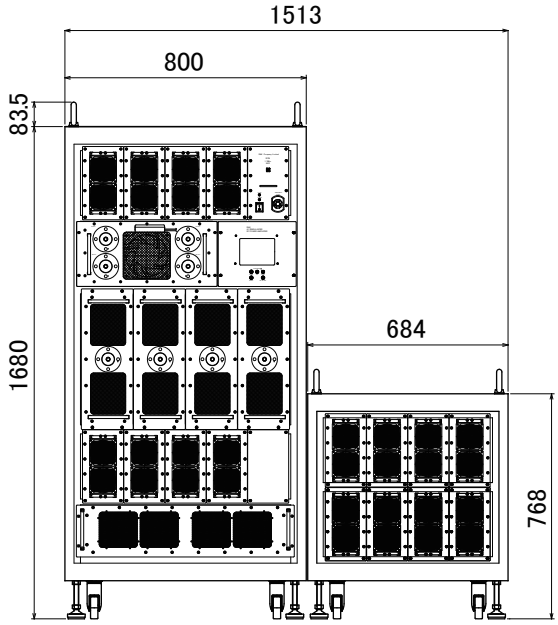
Model Number

R&K-A1.7BW0.2-6878R OP XX Option:Ask

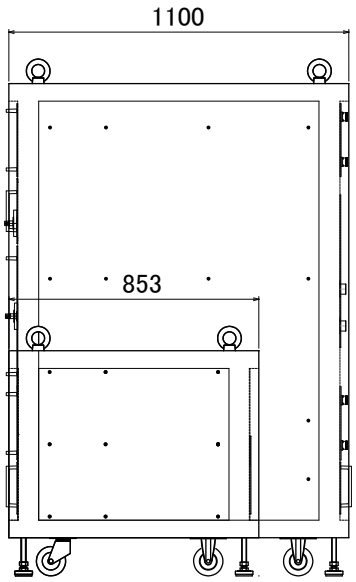
OUTLINE DRAWING

※IN MILLIMETERS

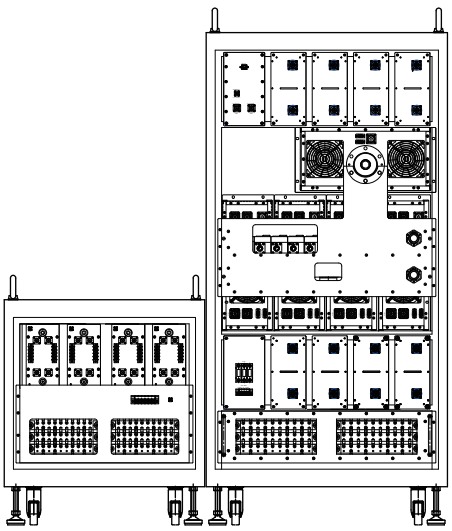
FRONT VIEW



SIDE VIEW



REAR VIEW



R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot export products to any country for use in military or defense applications.

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Tel : +81-545-31-2600 E-mail : info@rkco.jp
Fax : +81-545-31-1600 URL : http://rk-microwave.com

TYPICAL PERFORMANCE (Temp @+25℃)

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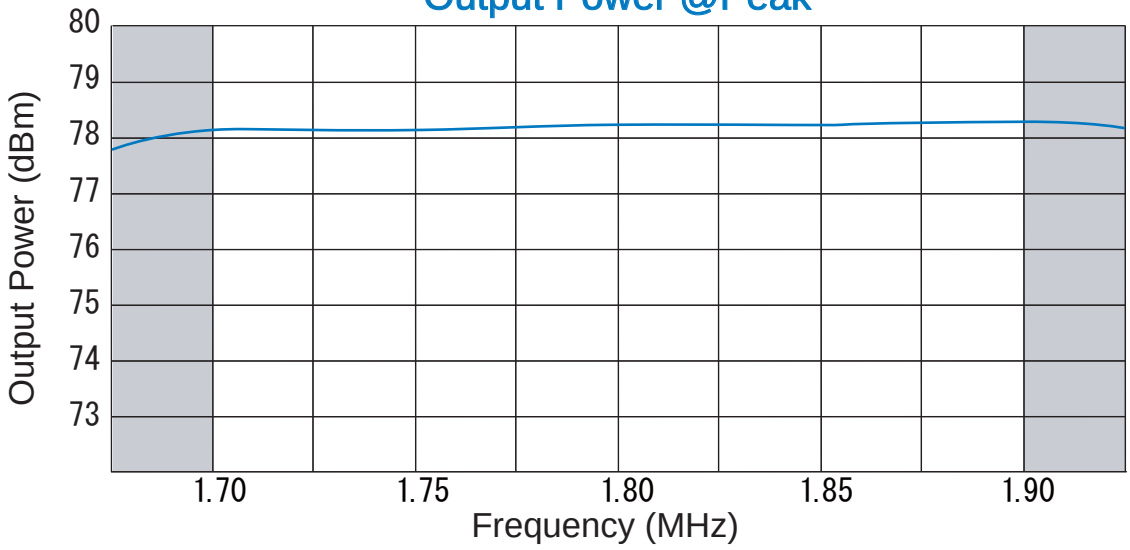
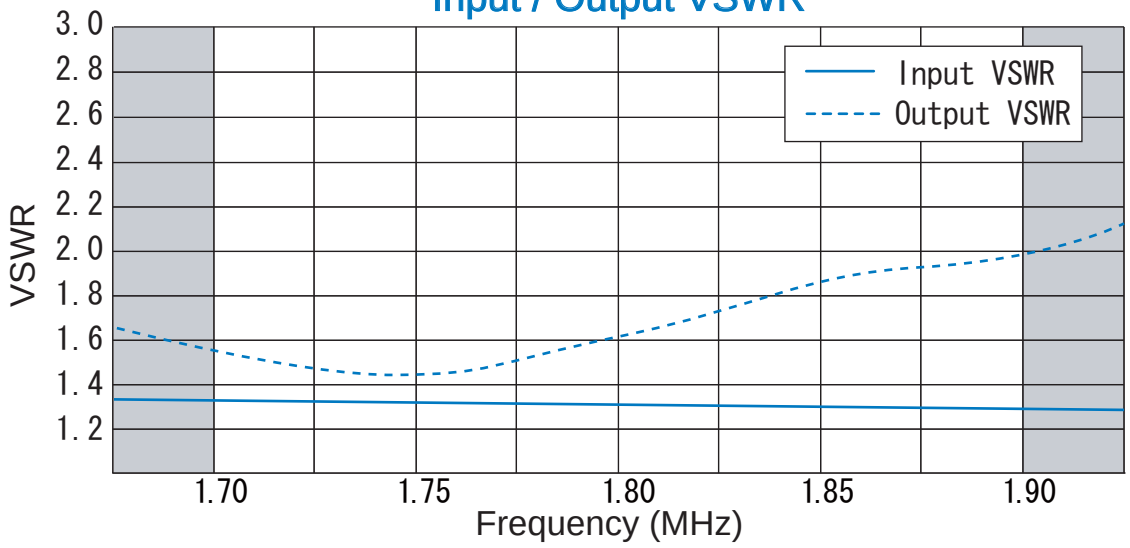
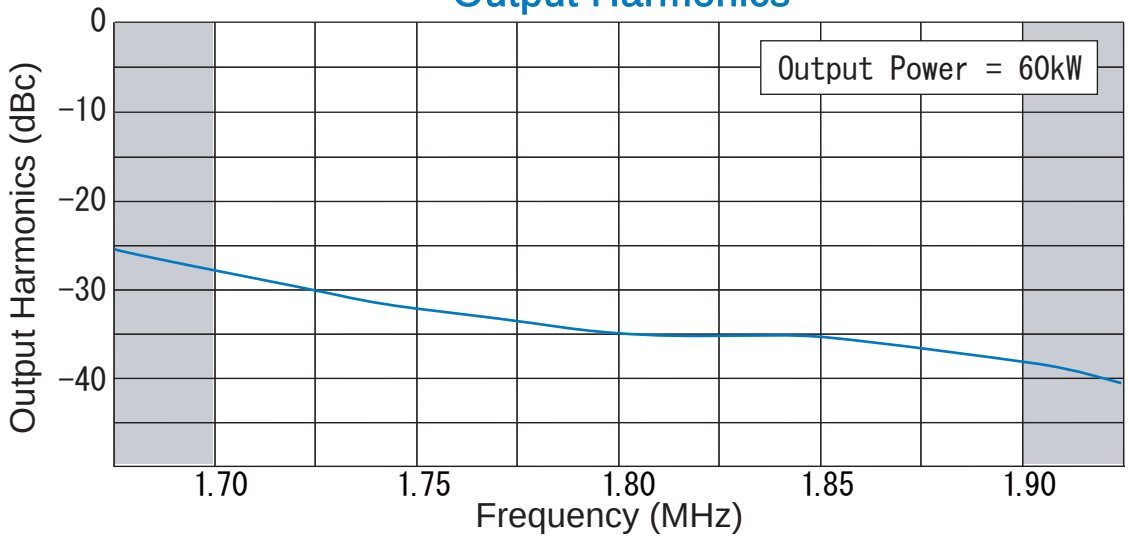
Output Power @Peak



Input / Output VSWR



Output Harmonics



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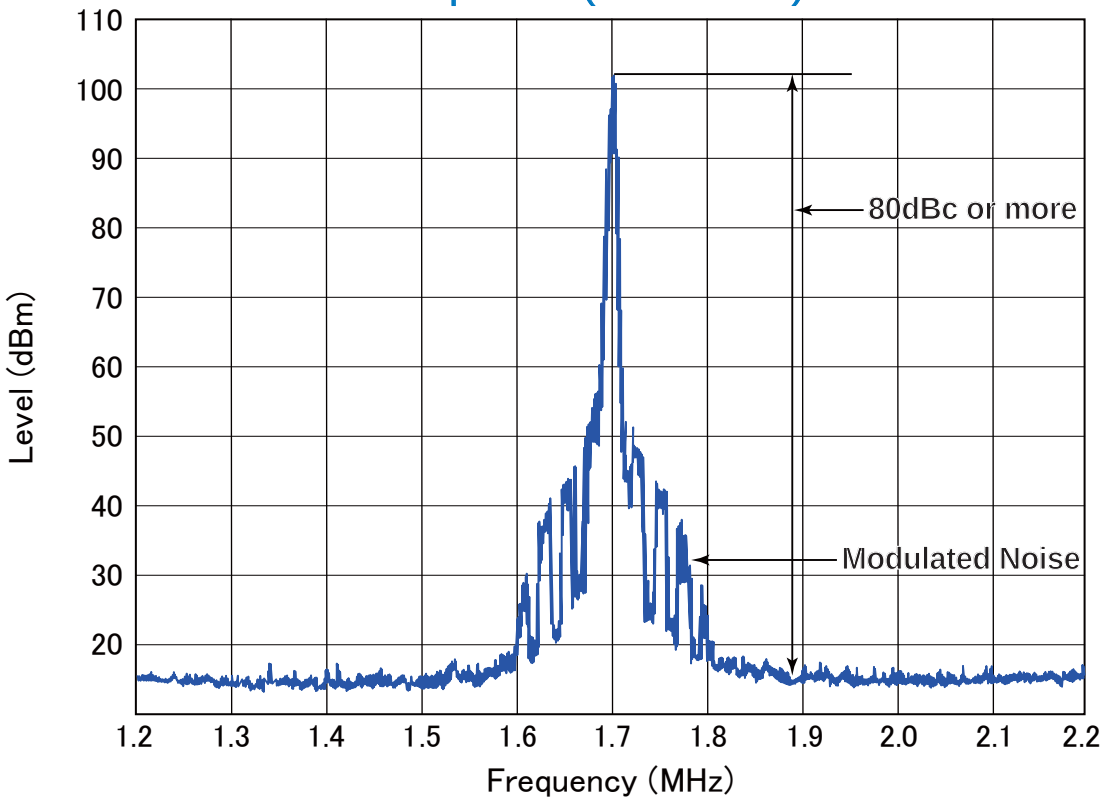
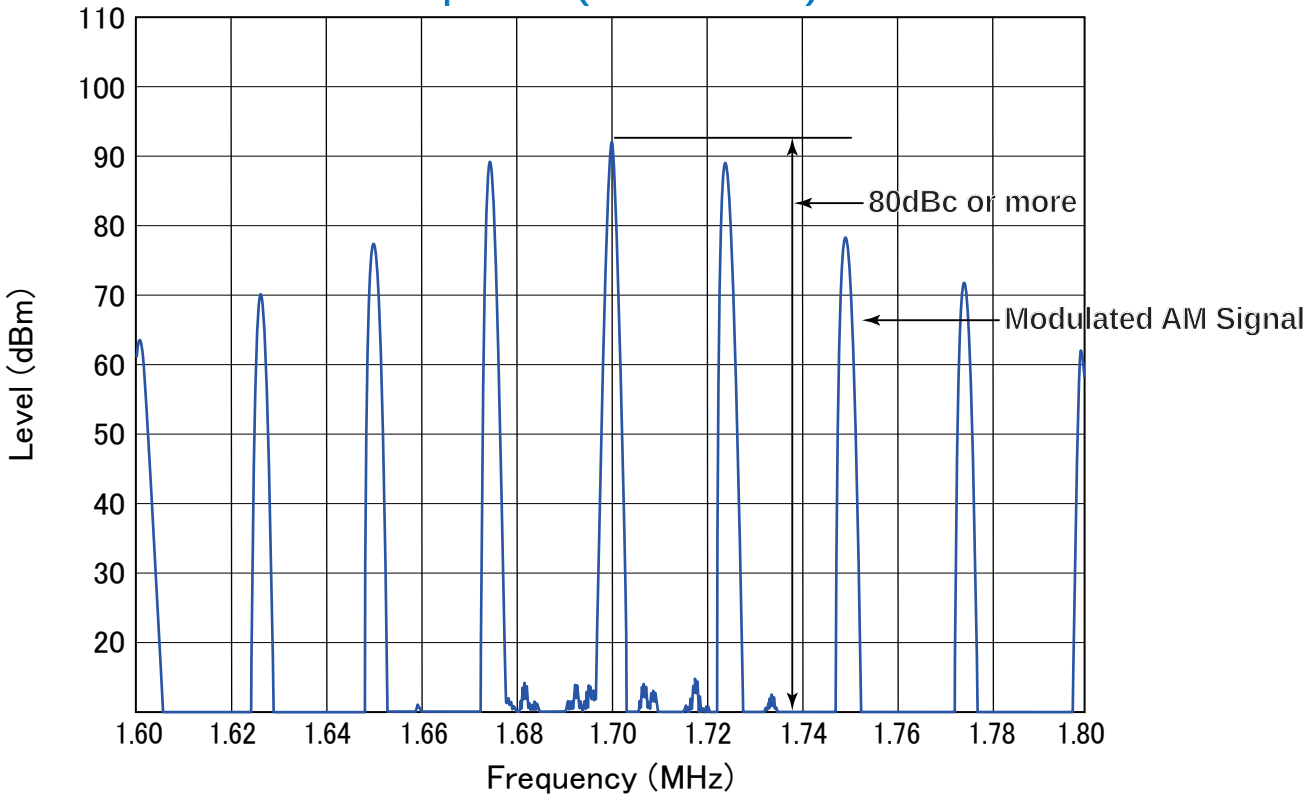
Spurious (Broad Band)



Spurious (Narrow Band)



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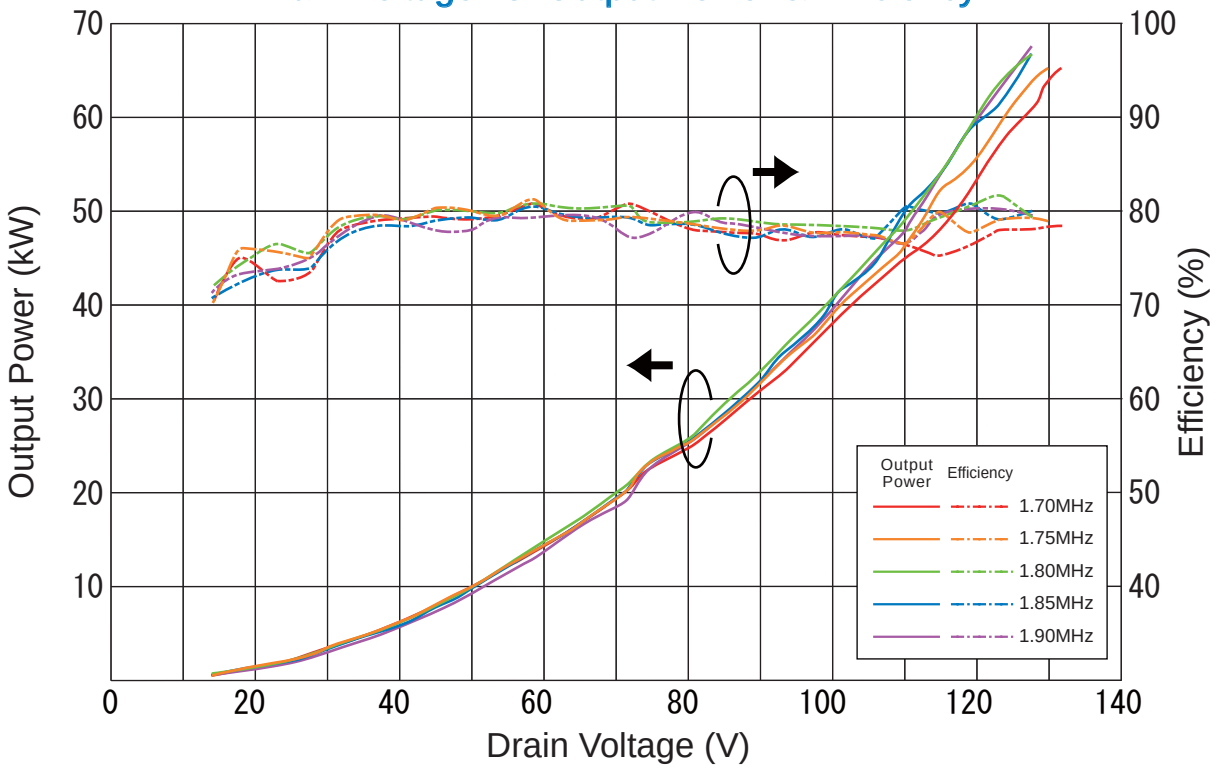
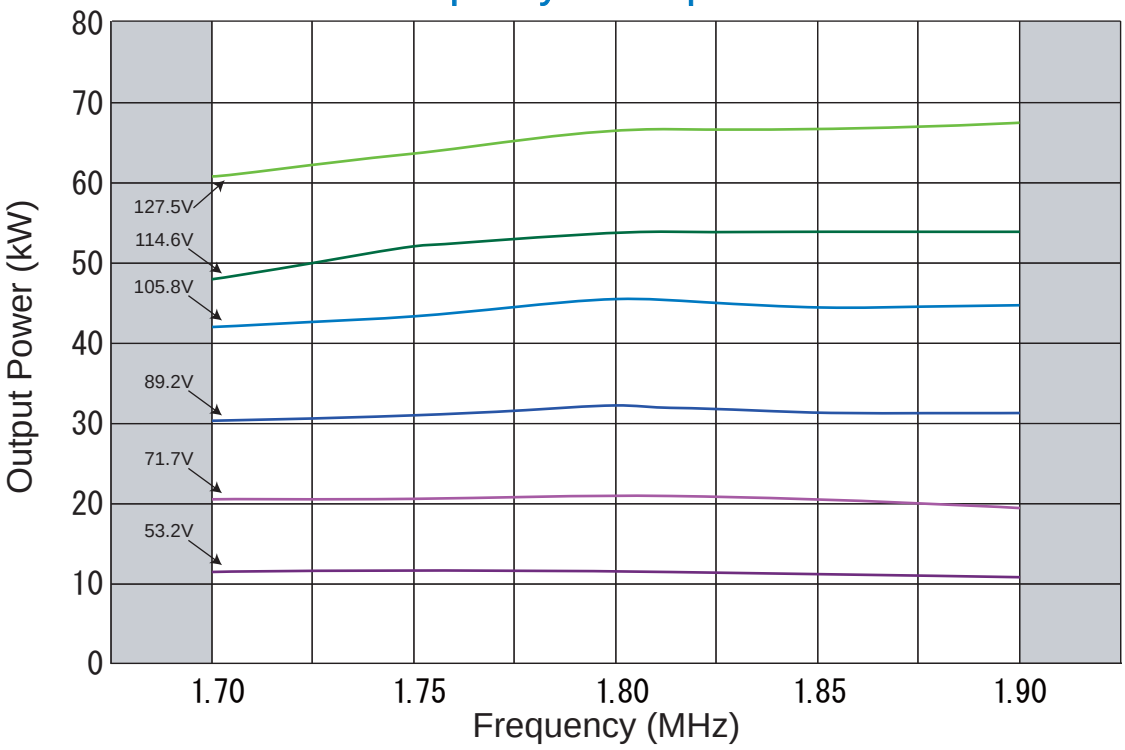
Drain Voltage vs. Output Power & Efficiency



Frequency vs. Output Power



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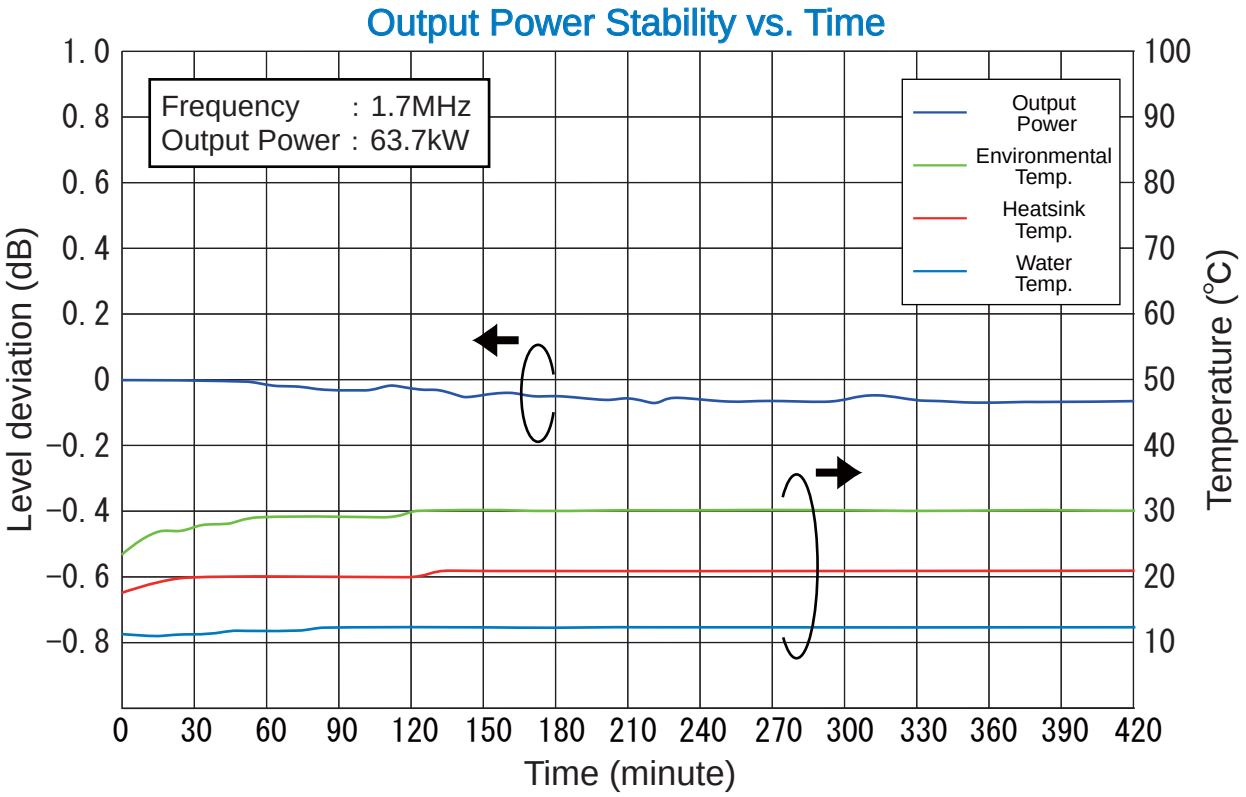
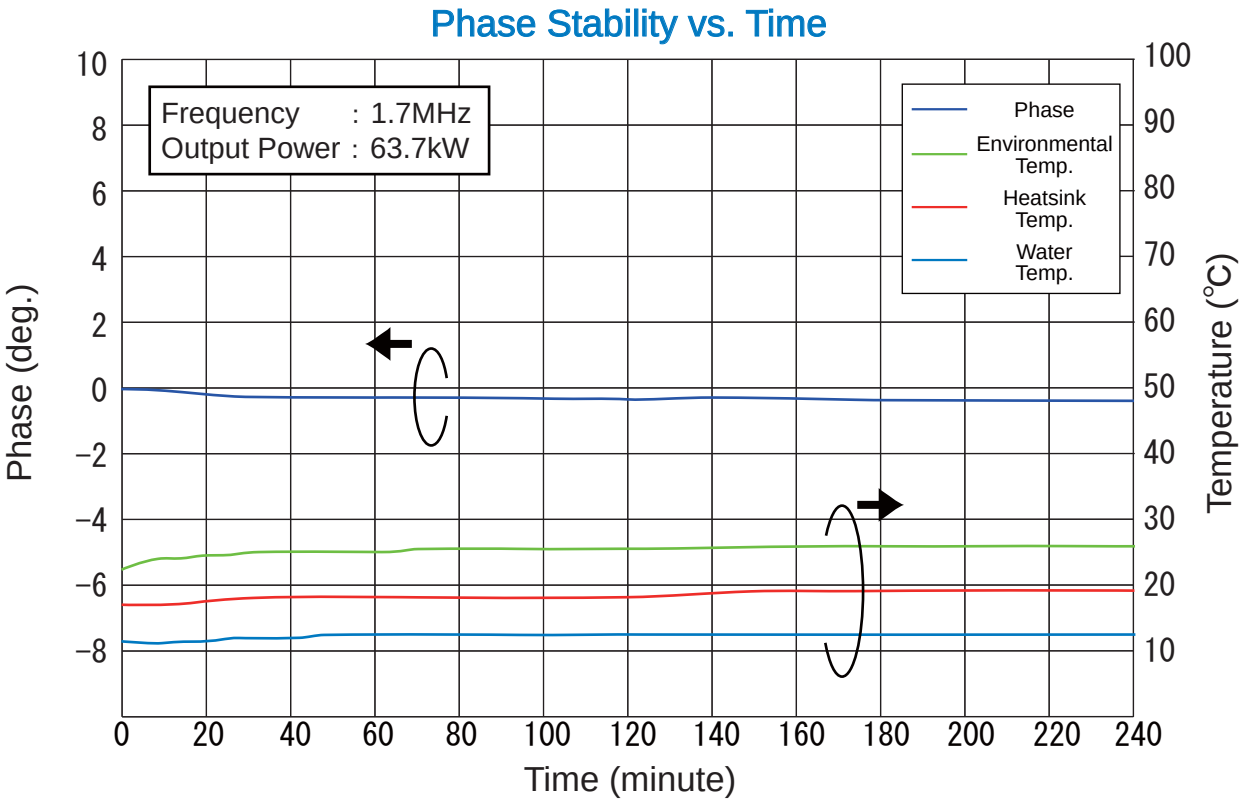
■Gain / Phase Stability





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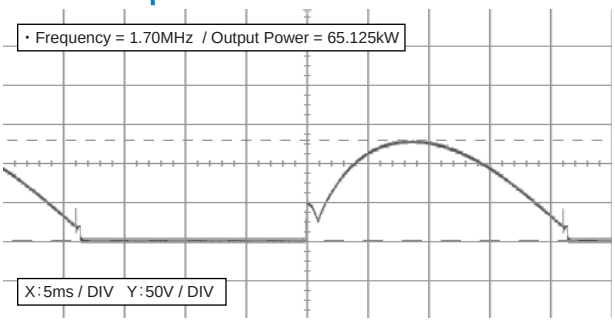
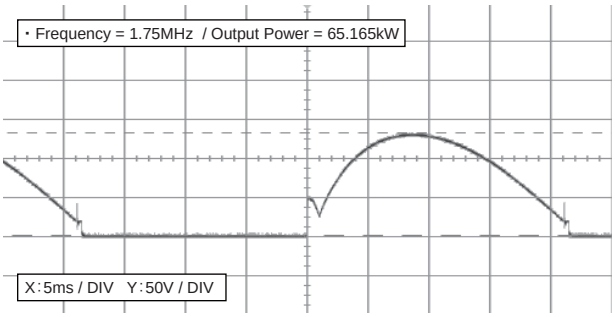
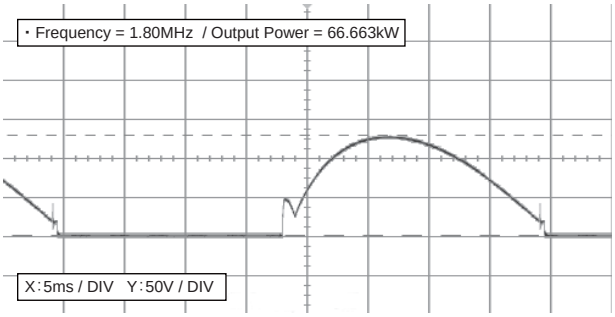
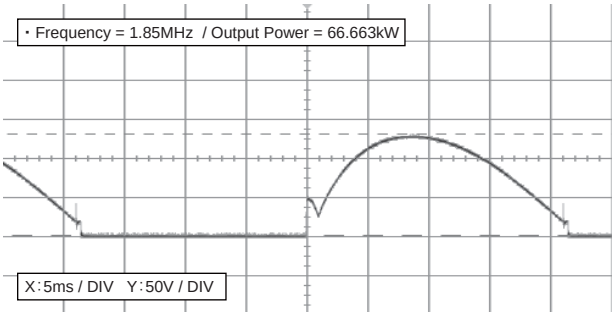
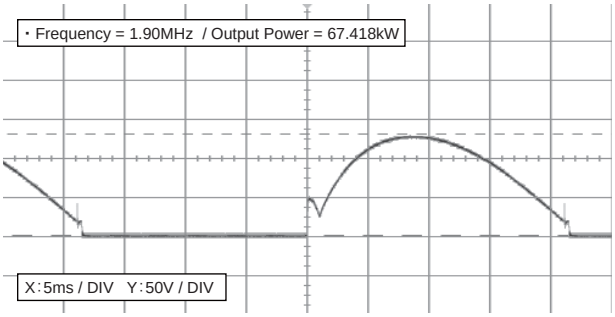
■P.S. Output Waveform



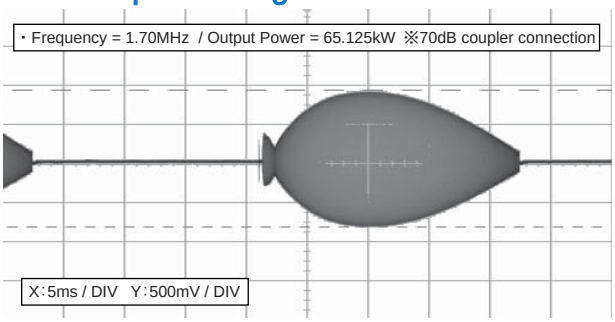


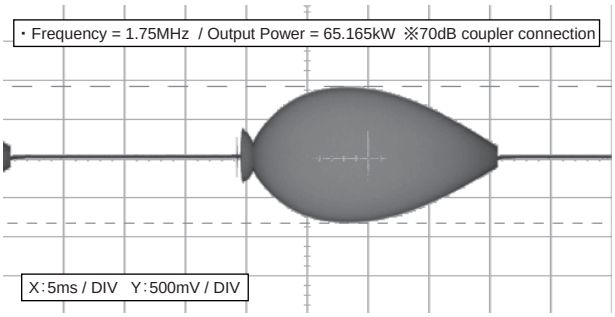


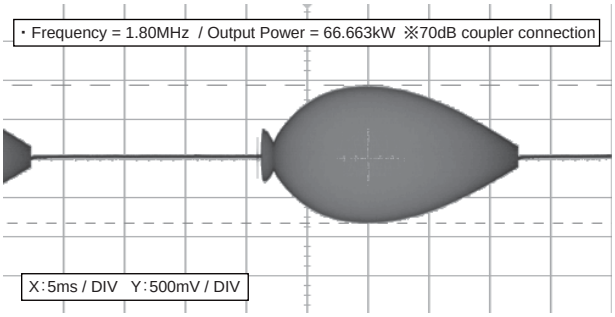


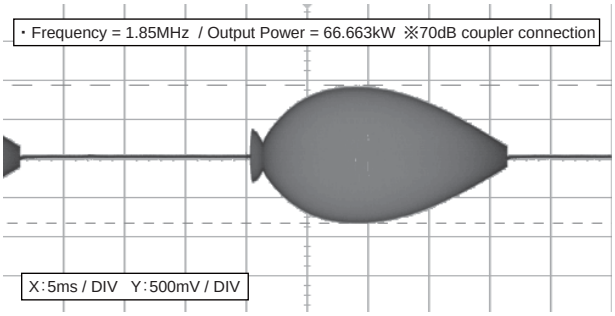


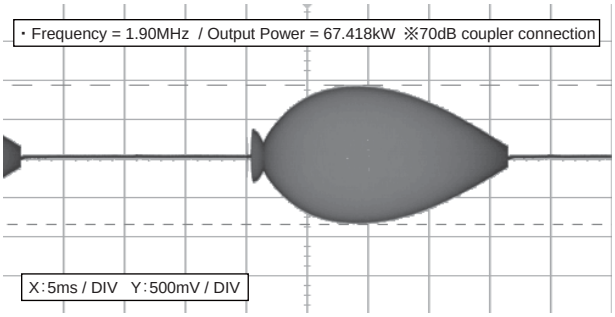
■RF Output Voltage Waveform











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